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 TI Manufacture of sodium silicate-based core materials
 for metal sandwich panels having good fire resistance
 IN Iwata, Hiroshi
 PA Nisshin Steel Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C04B038-02
 ICS C04B032-00; C04B032-02; E04C002-26
 CC 56-13 (Nonferrous Metals and Alloys)
 Section cross-reference(s): 57, 58

FAN.CNT 1

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PRAI	JP 2001-34371		20010209		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP	2002241185	ICM	C04B038-02
		ICS	C04B032-00; C04B032-02; E04C002-26
		IPCI	C04B0038-02 [ICM,7]; C04B0032-00 [ICS,7]; C04B0032-02 [ICS,7]; E04C0002-26 [ICS,7]
		IPCR	E04C0002-26 [I,C*]; E04C0002-26 [I,A]; C04B0032-00 [I,C*]; C04B0032-00 [I,A]; C04B0032-02 [I,A]; C04B0038-02 [I,C*]; C04B0038-02 [I,A]
AB	The process comprises: adding 3-30 weight parts of boric acid and/or 10-100 weight parts of Al hydroxide to 100 weight parts (solid portion) of #3 sodium silicate, stirring and heating to form a gel-like material, and placing in a container for foaming at 160-300° until the sodium silicate have the d. of 0.1-0.9, where the d. is calculated based on the formula of: $(M_{sn}-M_t)/(V+1000)$ (V is the volume of the foamed body, M _{sn} is the weight of the foamed body, and M _t is the weight of the additive before foaming).		
ST	foamed sodium silicate core metal sandwich panel fire resistance		
IT	Fire-resistant materials (manufacture of sodium silicate-based cor		